

**CRITERIA FOR IDENTIFYING EXCEPTIONAL CIRCUMSTANCES
FOR NORTH PACIFIC ALBACORE TUNA V02 (SAC-15-INF-S)
&
SCIENTIFIC ADVICE ON INTERPRETING THE FISHING
INTENSITY METRIC FROM THE NORTH PACIFIC ALBACORE
TUNA HARVEST STRATEGIES IN TERMS OF CATCH AND
EFFORT MANAGEMENT MEASURES (SAC-15-INF-T)**

ISC Albacore Working Group

IATTC Scientific Advisory Committee

June 10 – 14, 2024



Albacore Working Group in 2024

- 2 requests from IATTC & WCPFC to ISC ALBWG & IATTC Staff (IATTC Resolution C-23-02)
 1. Criteria for identifying exceptional circumstances
 2. Advise how fishing intensity (in SPR) should be interpreted to actual management
- ALBWG met in March 2024 (Victoria, Canada)
- Preliminary documents to be reviewed by ISC Plenary in June 2024



Criteria for Identifying Exceptional Circumstances

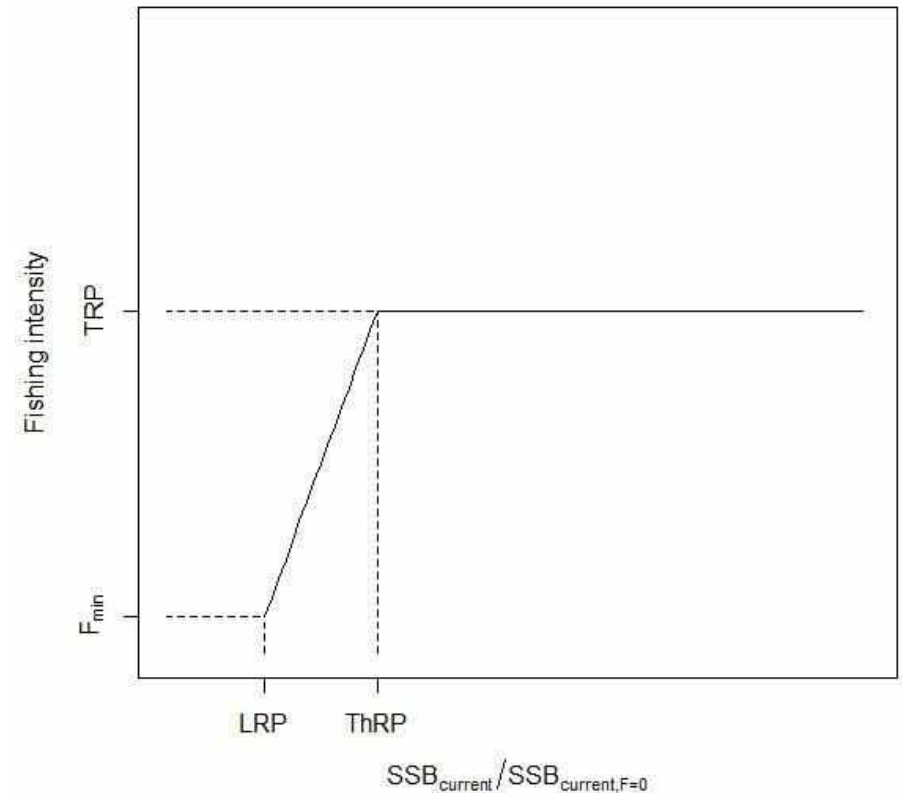
- Preliminary criteria developed in early 2023
- Incomplete because harvest control rules (HCRs) not yet adopted at that time
- Updated the criteria based on implementation of adopted HCRs
 - If fishing intensity exceeds that simulated in MSE
 - If TAC/TAE is implemented, and the catch or effort exceeds that by >20%
- ALBWG to review criteria periodically

-Application	Stock assessment	Stock assessment is Not not producible or <u>estimates are</u> unreliable	Benchmark stock assessment every 3 years
-Implementation	<u>TBD (will depend on adopted HCRs) Fishing intensity (F_{MSR})</u>	The <u>implementation of the management action fishing intensity</u> is substantially different from what is prescribed by the HCR, <u>given the uncertainty range that was simulated by the most recent MSE (accepted by the ALBWG in 2021)</u>	<u>-Benchmark stock assessment every 3 years TBD</u>
	<u>Realized catch or effort</u>	<u>If a TAC/TAE implemented and the realized catch or effort exceed the TAC/TAE by greater than 20%</u>	<u>Benchmark stock assessment every 3 years</u>

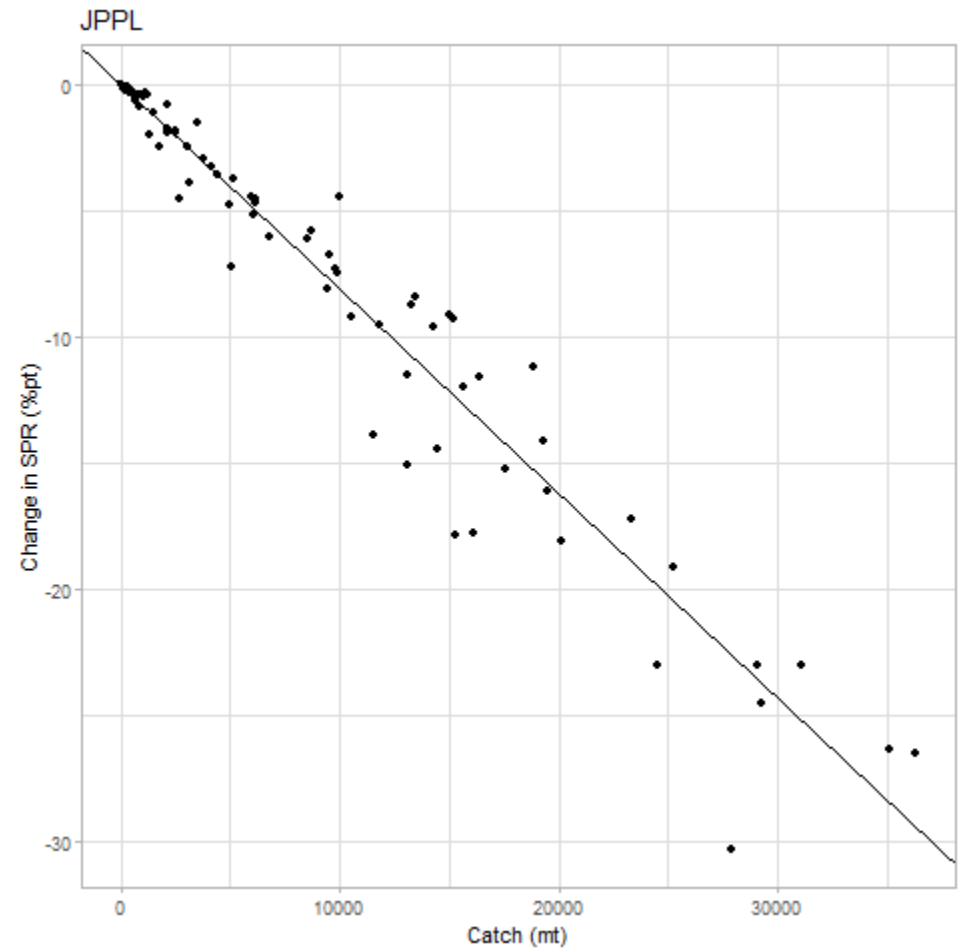
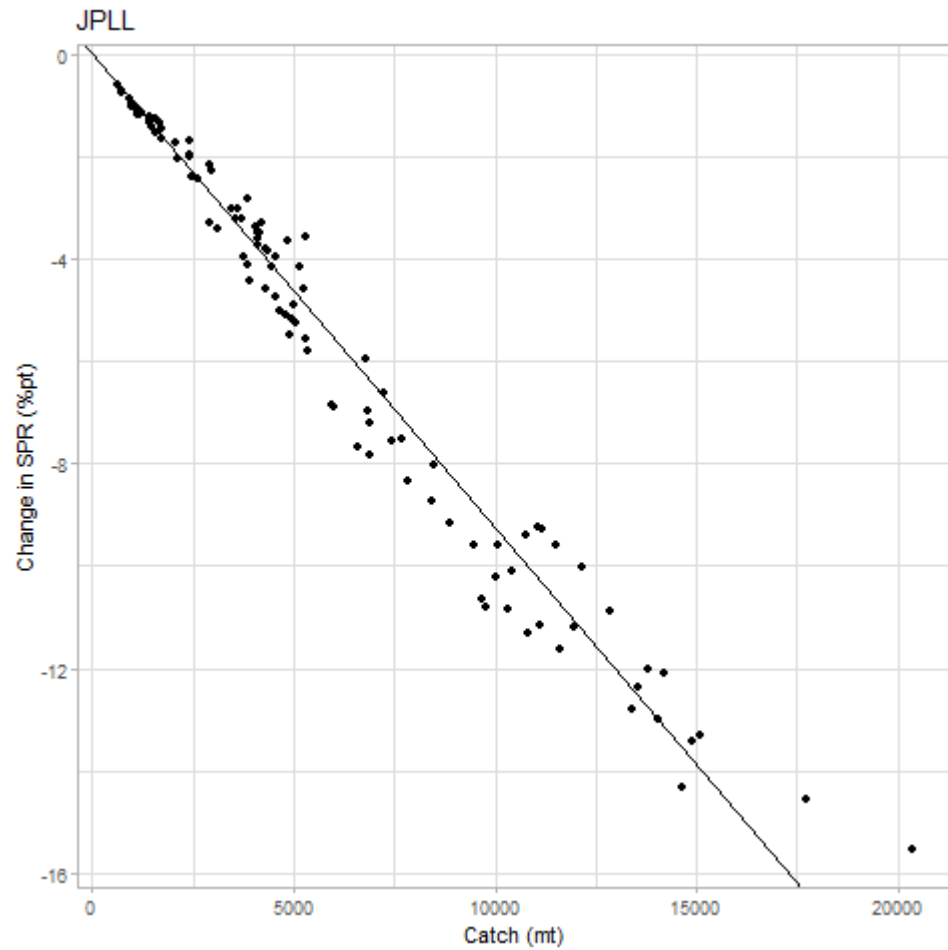
Page 29 of 38 11766 words

Interpretation of Fishing Intensity

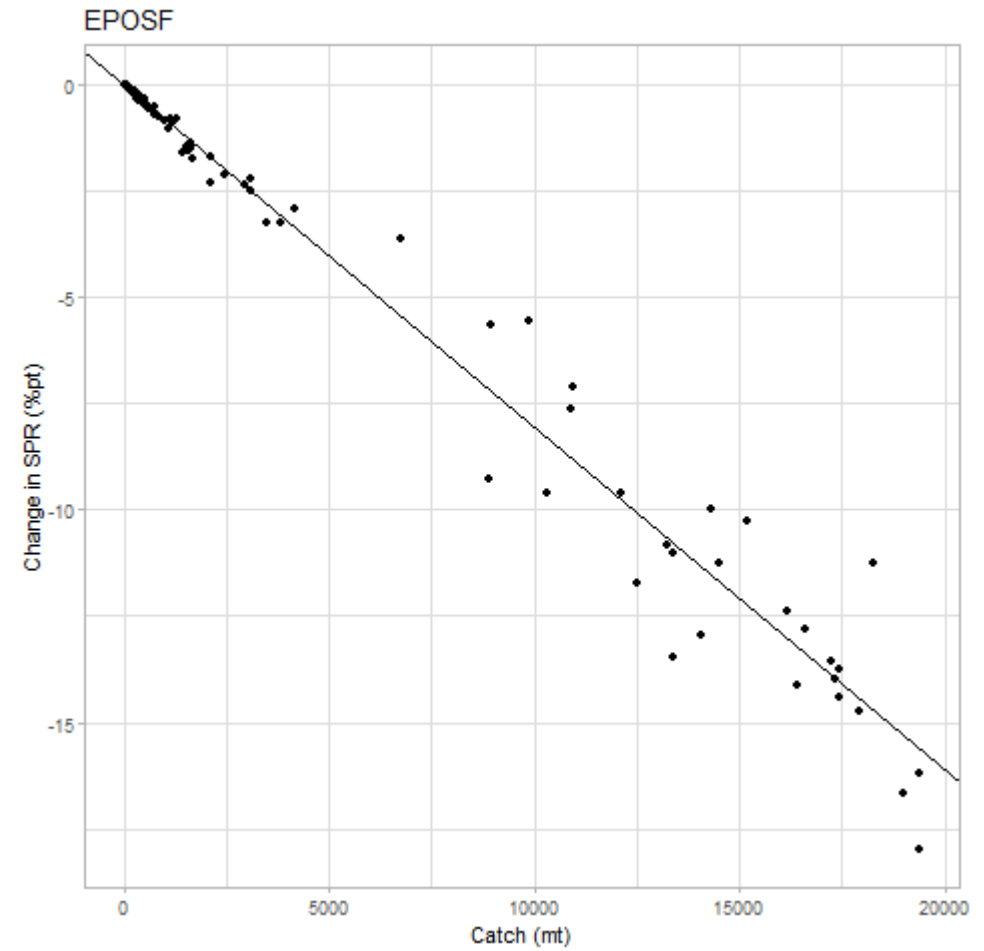
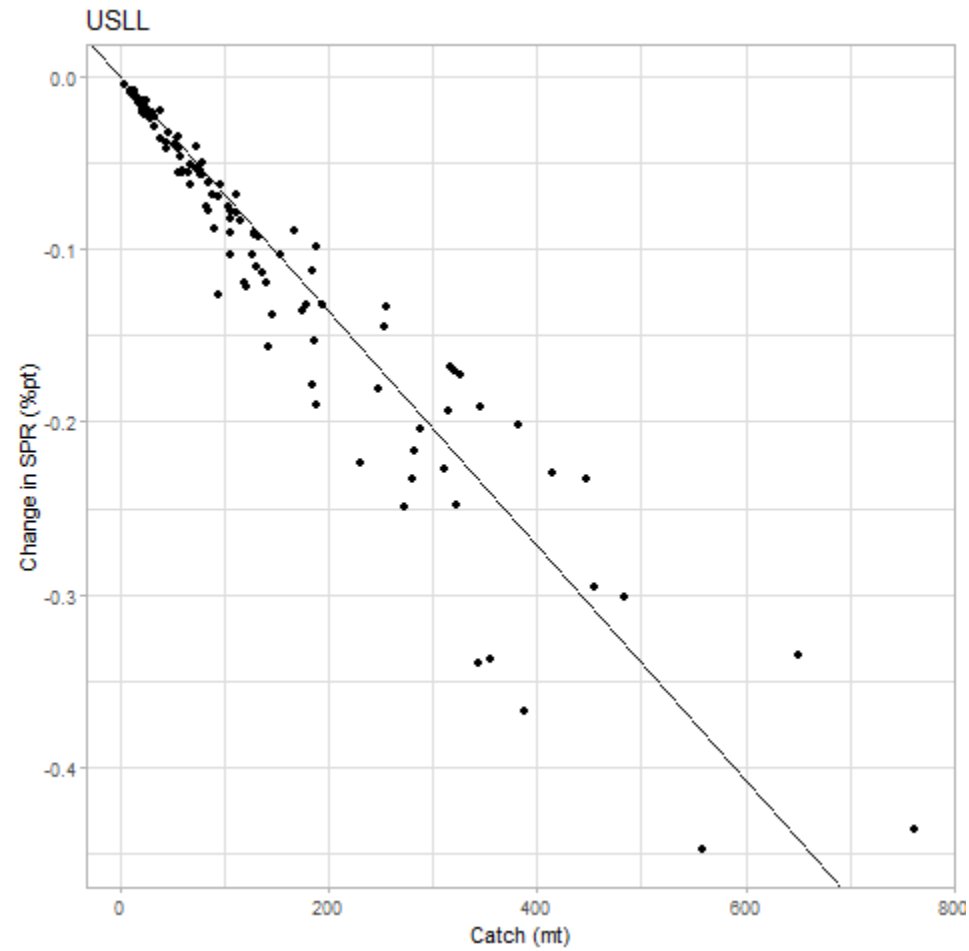
- Resolution C-23-02 uses fishing intensity (F%SPR) in TRP and HCRs
- F%SPR is useful to indicate overall stock status and fishing impact on relative SSB
- IATTC & WCPFC traditionally used catch and/or effort to manage fisheries
- ALBWG provided results of analyses to relate fleet-specific F%SPR to catch and effort (only for surface fleets)
- GLM: $\Delta F\%SPR \sim 0 + \text{catch}$



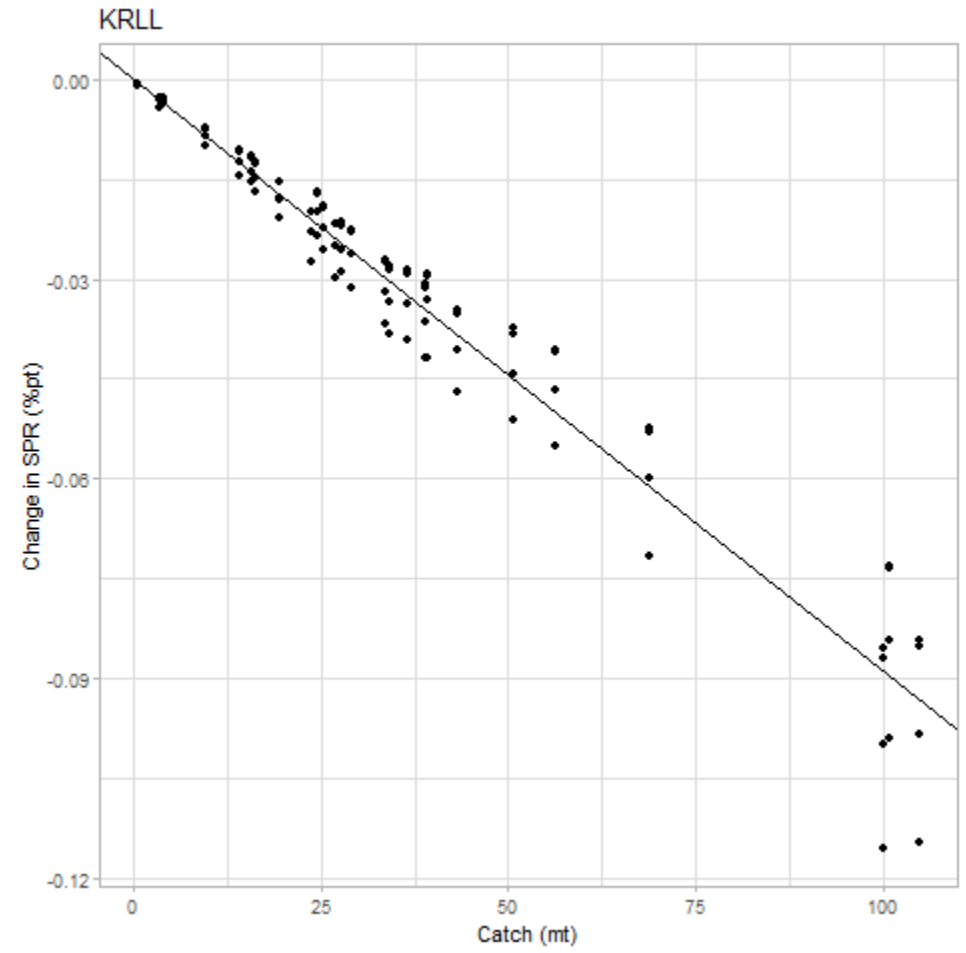
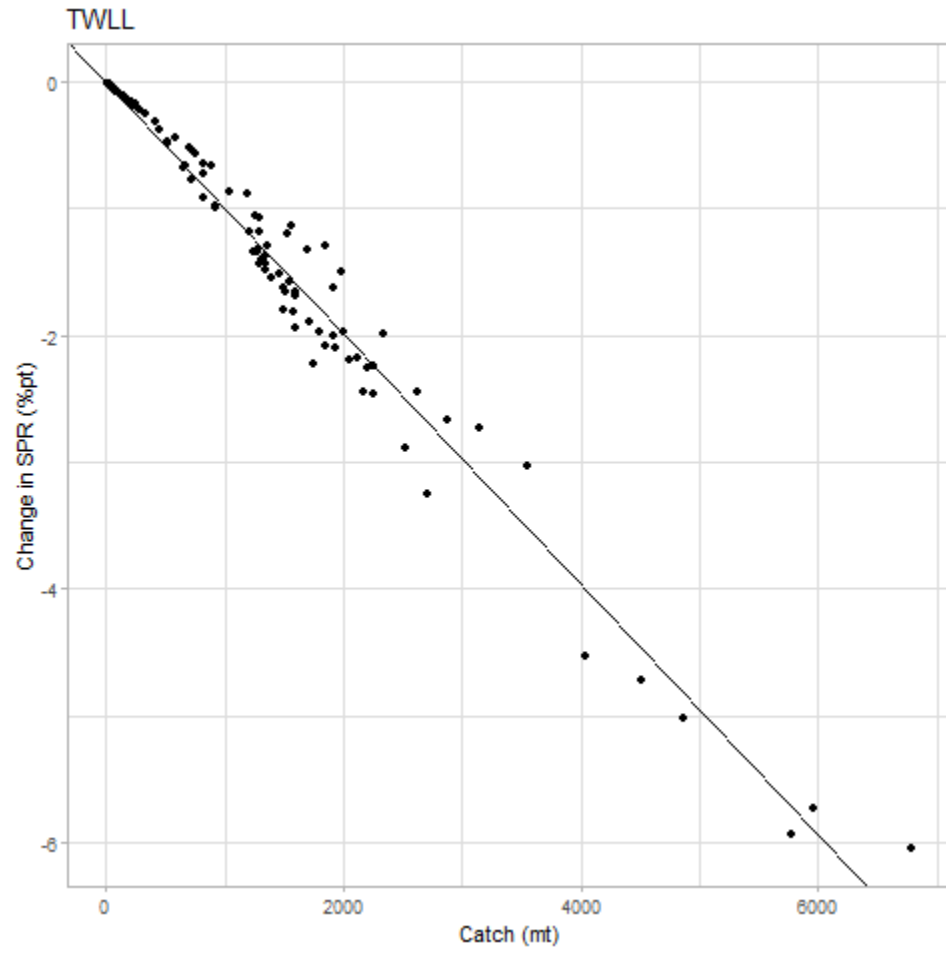
F%SPR \sim Catch



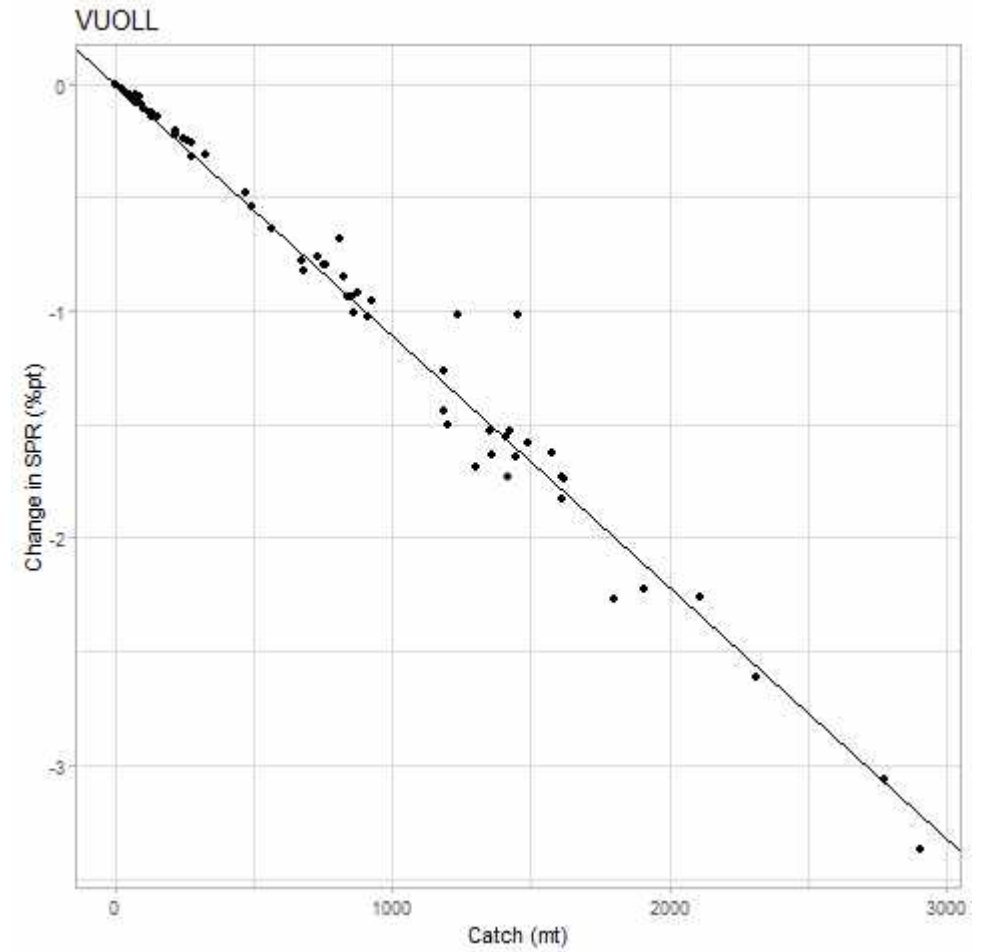
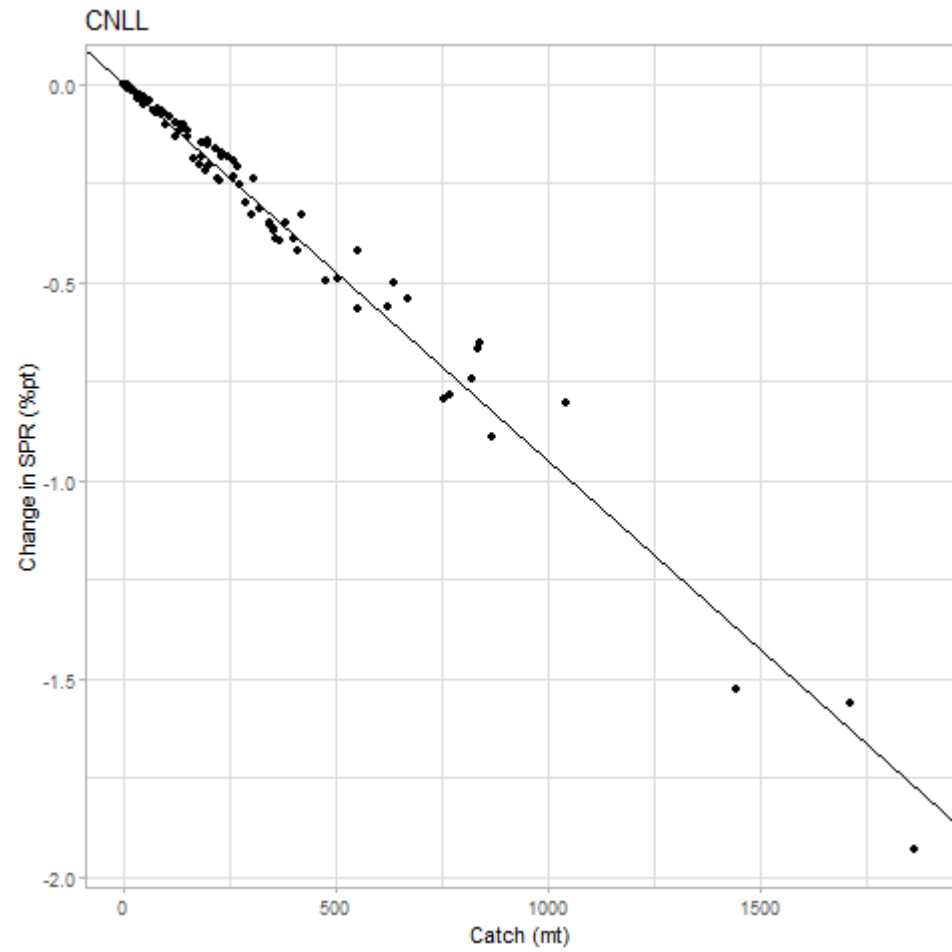
F%SPR \sim Catch



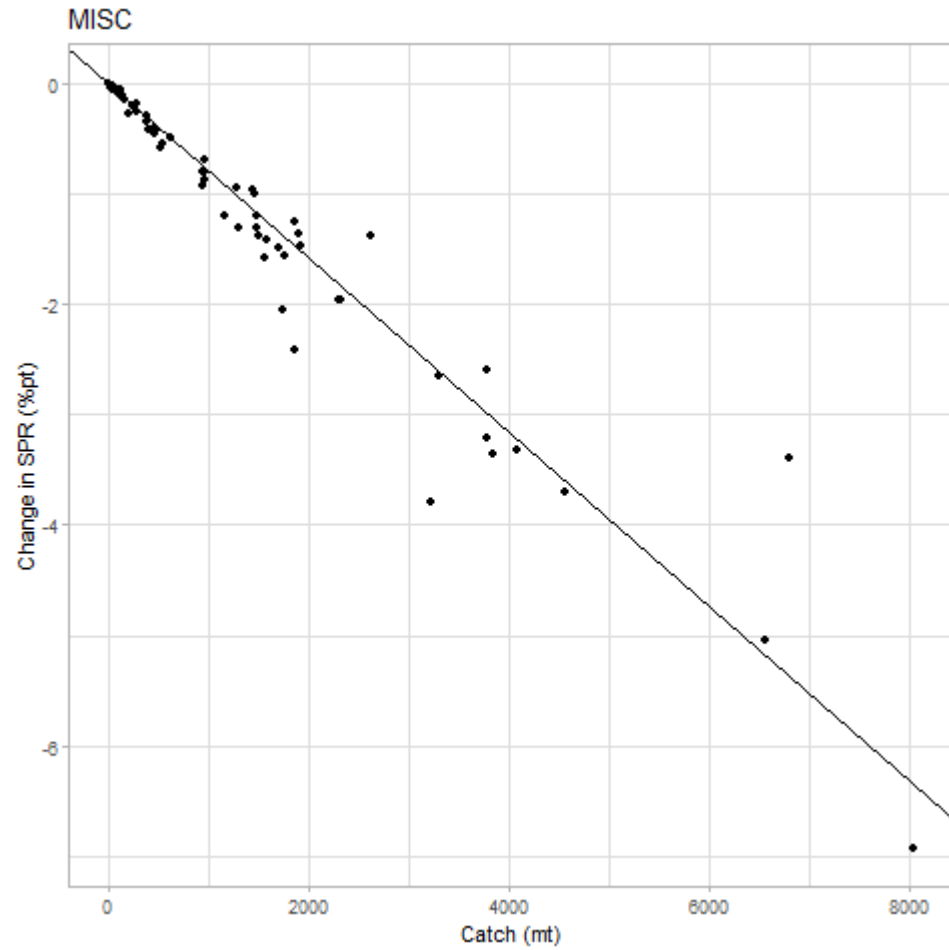
F%SPR \sim Catch



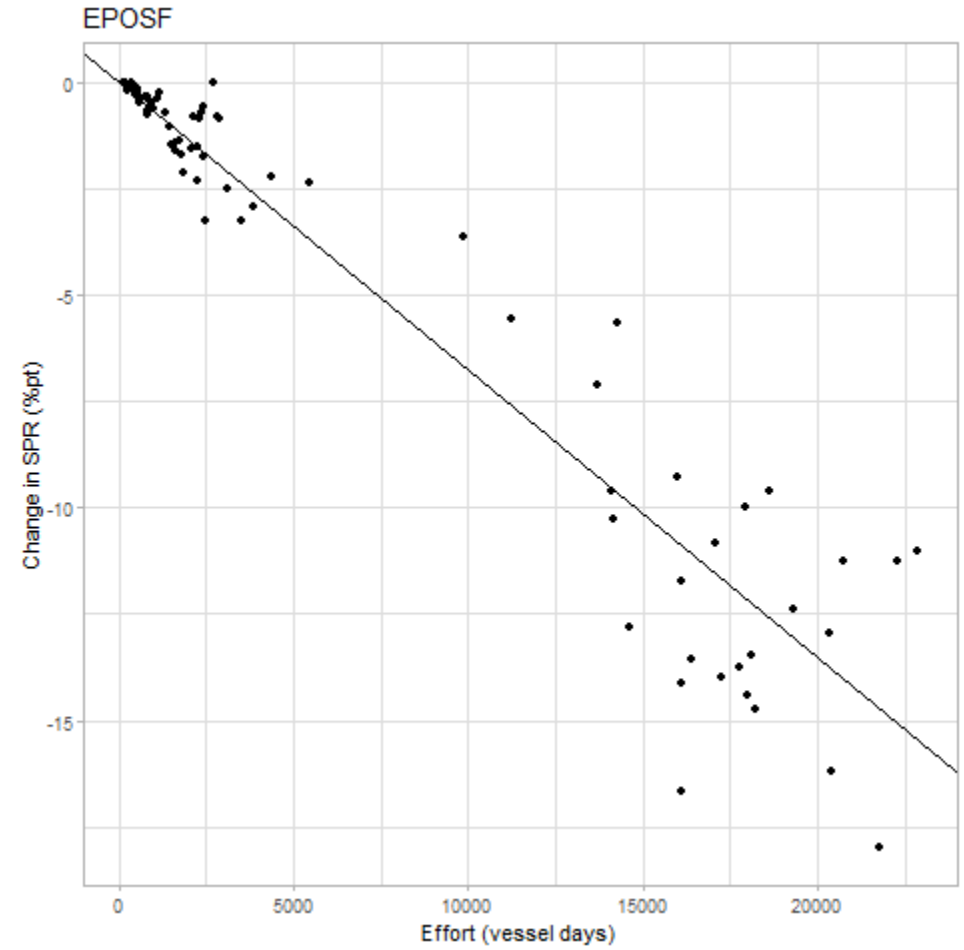
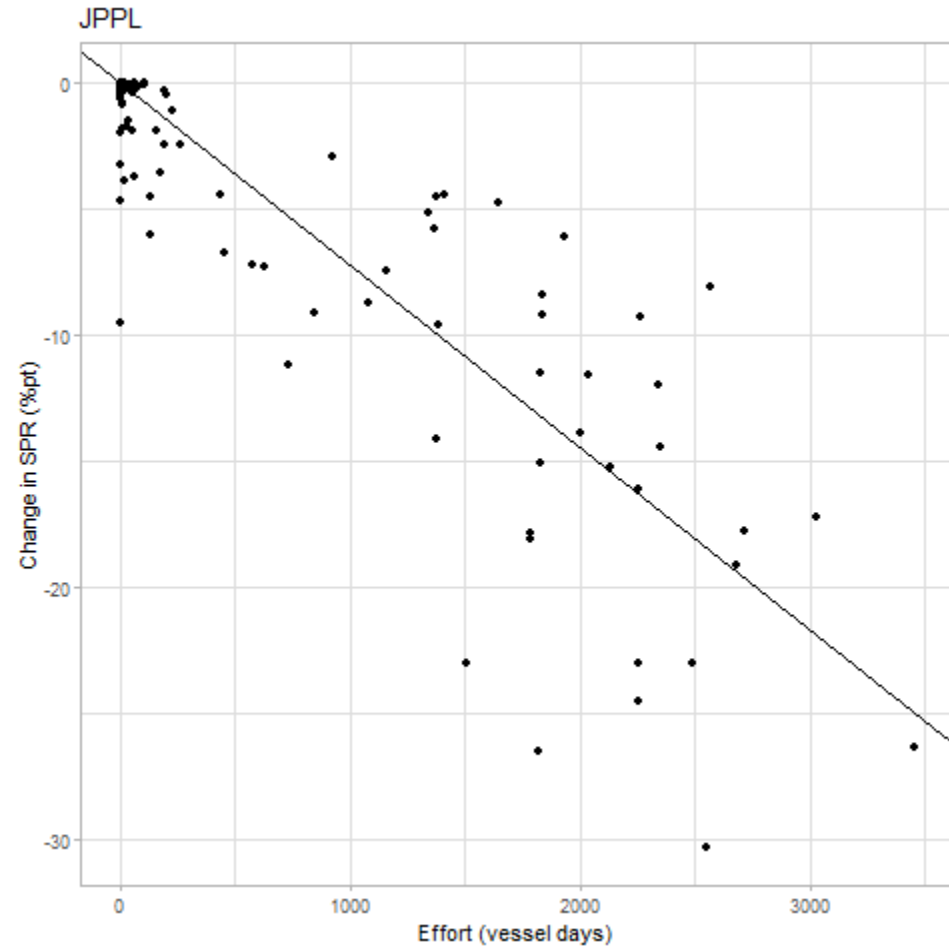
F%SPR \sim Catch



F%SPR \sim Catch



F%SPR \sim Effort



Scientific Advice & Recommendations

- IATTC & WCPFC currently maintain NPALB effort at or below 2002-2004 levels (e.g., Resolution C-05-02), which has maintained NPALB around or below the TRP of 45% F%SPR
- Relationships between F%SPR and catch or effort will likely change as stock and/or fishery conditions (e.g., recruitment, selectivity, ...) change
- Recommendation to re-evaluate relationships if reference points are breached or if exceptional circumstances identified
- Strong relationship between F%SPR and catch for all fleets but JPPL and EPOSF more variable
- Moderately strong relationship between F%SPR and effort for JPPL and EPOSF fleets

Scientific Advice & Recommendations

- ALBWG recommends that changes in fishing intensity required by the NPALB harvest strategy can potentially be translated into catch reductions for all fleet groups
- ALBWG noted that WCPFC harvest strategy for SKJ manages the JPPL fleet using effort controls and JPPL had a stronger relationship between effort & SKJ catch compared to ALB catch
- ALBWG recommends that changes in fishing intensity required by the NPALB harvest strategy can potentially be translated into changes in effort for the management of surface fleet groups, JPPL and EPOPSF

ALBWG Workplan

- Next assessment scheduled for 2026
- ALBWG model improvement meeting in early 2025
- ALBWG data preparation meeting in late 2025
- ALBWG assessment meeting in 1st half of 2026



Preguntas - Questions?